GRYPHON Z97

Intel® Socket 1150 for the 5th/New 4th/4th Generation Core™ i7/Core™ i5/Core™ i3/Pentium®/Celeron® Processors
Supports Intel® 22 nm CPU
Supports Intel® Turbo Boost Technology 2.0
* The Intel® Turbo Boost Technology 2.0 support depends on the CPU types.
* Refer to www.asus.com for CPU support list

- ## Chipset

Intel® Z97

- ## Memory

4 x DIMM, Max. 32GB, DDR3 1866/1600/1333 MHz Non-ECC, Un-buffered Memory *
Dual Channel Memory Architecture
Supports Intel® Extreme Memory Profile (XMP)
* Hyper DIMM support is subject to the physical characteristics of individual CPUs.
* Refer to www.asus.com for the Memory QVL (Qualified Vendors Lists).

- ## Graphic

Integrated Graphics Processor- Intel® HD Graphics support
Multi-VGA output support : HDMI/DVI/DisplayPort ports
- Supports HDMI with max. resolution 4096 x 2160 @ 24 Hz / 2560 x 1600 @ 60 Hz
- Supports DVI-D with max. resolution 1920 x 1200 @ 60 Hz
- Supports DisplayPort with max. resolution 4096 x 2160 @ 24 Hz / 3840 x 2160 @ 60 Hz
Maximum shared memory of 512 MB
Supports Intel® InTru™ 3D, Quick Sync Video, Clear Video HD Technology, Insider™
DP 1.2 Multi-Stream Transport compliant, supports DP 1.2 monitor daisy chain up to 3 displays

- ## Multi-GPU Support

Supports NVIDIA® Quad-GPU SLI™ Technology
Supports AMD Quad-GPU CrossFireX™ Technology

- ## Expansion Slots

2 x PCIe 3.0/2.0 x16 (Single at x16, dual at x8/x8,)
1 x PCIe 2.0 x16 (x4 mode, black)
1 x PCIe x1

- ## Storage

Intel® Z97 chipset :
6 x SATA 6Gb/s port(s), brown,
Support Raid 0, 1, 5, 10
Supports Intel® Smart Response Technology, Intel® Rapid Start Technology, Intel® Smart Connect Technology *[1]

- ## LAN

Intel® I218V, 1 x Gigabit LAN Controller(s)

- ## Audio

Realtek® ALC892 8-Channel High Definition Audio CODEC
- Supports : Jack-detection, Multi-streaming, Front Panel Jack-retasking
Audio Feature :
- Absolute Pitch 192kHz/ 24-bit True BD Lossless Sound
- Optical S/PDIF out port(s) at back panel
- BD Audio Layer Content Protection
- Audio Shielding: Ensures precision analog/digital separation and greatly reduced multi-lateral interference
- Dedicated audio PCB layers: Separate layers for left and right channels to guard the quality of the sensitive audio signals
- Audio amplifier: Provides the highest-quality sound for headphone and speakers
- Unique de-pop circuit: Reduces start-up popping noise to audio outputs

- ## USB Ports

Intel® Z97 chipset :
6 x USB 3.0/2.0 port(s) (4 at back panel, blue, 2 at mid-board)
Intel® Z97 chipset :
8 x USB 2.0/1.1 port(s) (4 at back panel, black, 4 at mid-board)

- ## Special Features

TUF Features:
TUF ENGINE! Power Design :

- 8 +2 Digital Phase Power Design
- TUF Components (New Alloy Choke, Ti-Cap. & MOSFET; certified by military-standard)
- ASUS DIGI+ Power Control Utility

Ultimate COOL! Thermal Solution :

- TUF Thermal Radar 2
- TUF ICe

Safe & Stable! Guardian Angel :

- TUF ESD Guards

ASUS Exclusive Features :

- MemOK!
- AI Suite 3
- Ai Charger
- USB Charger+
- Anti-Surge
- ASUS UEFI BIOS EZ Mode featuring friendly graphics user interface
- USB 3.0 Boost
- Disk Unlocker
- Turbo LAN

Interactive HomeCloud

- Media Streamer

ASUS EZ DIY :

- ASUS CrashFree BIOS 3
- ASUS EZ Flash 2
- ASUS UEFI BIOS EZ Mode
- Multi-language BIOS
- Push Notice

ASUS Q-Design :

- ASUS Q-Shield
- ASUS Q-LED (CPU, DRAM, VGA, Boot Device LED)
- ASUS Q-Slot
- ASUS Q-DIMM
- ASUS Q-Connector

Operating System Support

Windows® 8.1
Windows® 8
Windows® 7

Back I/O Ports

1 x DVI-D
1 x DisplayPort
1 x HDMI
1 x LAN (RJ45) port(s)
4 x USB 3.0 (blue)
4 x USB 2.0
1 x Optical S/PDIF out
5 x Audio jack(s)

- ## Internal I/O Ports

1 x USB 3.0 connector(s) support(s) additional 2 USB 3.0 port(s) (19-pin)
2 x USB 2.0 connector(s) support(s) additional 4 USB 2.0 port(s)
1 x TPM header
6 x SATA 6Gb/s connector(s)
1 x CPU Fan connector(s) (1 x 4 -pin)
1 x CPU OPT Fan connector(s) (1 x 4 -pin)
4 x Chassis Fan connector(s) (4 x 4 -pin)
1 x Assistant Fan connector(s) (1 x 3 -pin)
1 x S/PDIF out header(s)
1 x Thunderbolt header(s)
1 x 24-pin EATX Power connector(s)
1 x 8-pin ATX 12V Power connector(s)
1 x Front panel audio connector(s) (AAFP)
1 x System panel(s)
1 x DRCT header(s)
1 x MemOK! button(s)
3 x Thermal sensor connector(s)
1 x Clear CMOS jumper(s)
1 x USB BIOS Flashback button(s)

- ## Accessories

User's manual
ASUS Q-Shield
4 x SATA 6Gb/s cable(s)
1 x SLI bridge(s)
1 x Q-connector(s) (2 in 1)
1 x TUF Certification card(s)
1 x TUF 5 Year Warranty manual(s) (by region)
1 x TUF Inside sticker(s)

- ## BIOS

  64 Mb Flash ROM, UEFI AMI BIOS, PnP, DMI2.7, WfM2.0, SM BIOS 2.8, ACPI 5.0, Multi-language BIOS, ASUS EZ Flash 2, CrashFree BIOS 3, F11 EZ Tuning Wizard, F6 Qfan Control, F3 My Favorites, Quick Note, Last Modified log, F12 PrintScreen, F3 Shortcut functions, and ASUS DRAM SPD (Serial Presence Detect) memory information

- ## Manageability

  WfM 2.0, DMI 2.7, WOL by PME, PXE

- ## Support Disc

  Drivers
  Anti-virus software (OEM version)
  ASUS/TUF CPU-Z
  ASUS Utilities
  EZ Update

- ## Form Factor

  mATX Form Factor
  9.6 inch x 9.6 inch (24.4 cm x 24.4 cm)

- ## Note

  *1: These functions will work depending on the CPU installed.